STEREO INTEGRATED AMPLIFIER

KA-2060R/3060R

SERVICE MANUAL

KENWOOD

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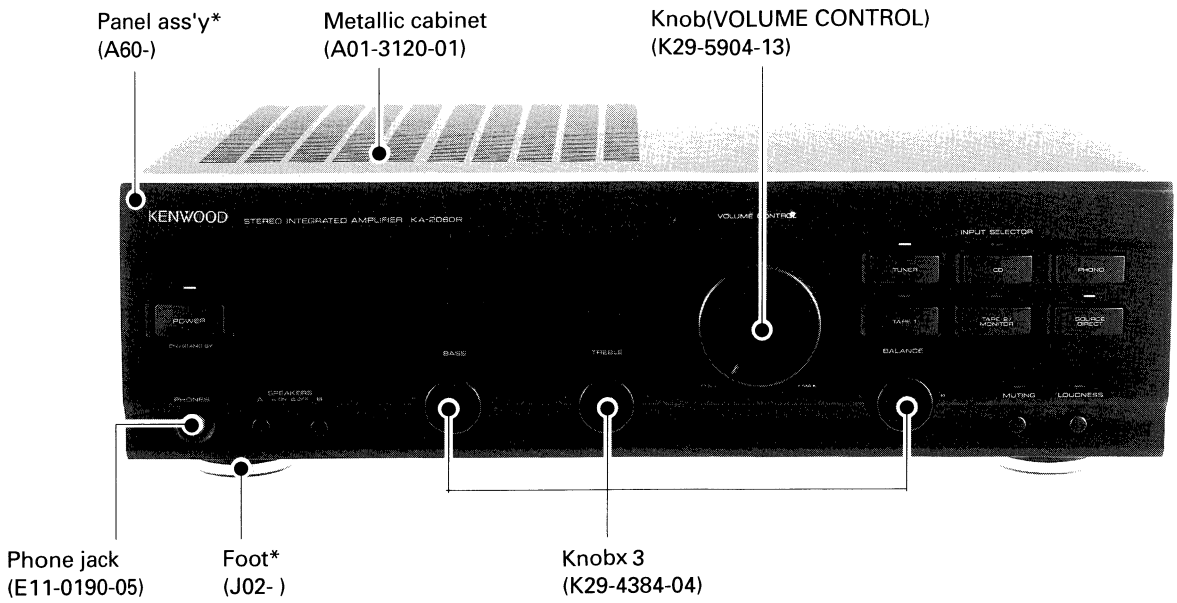
B51-4863-00(K) 2710



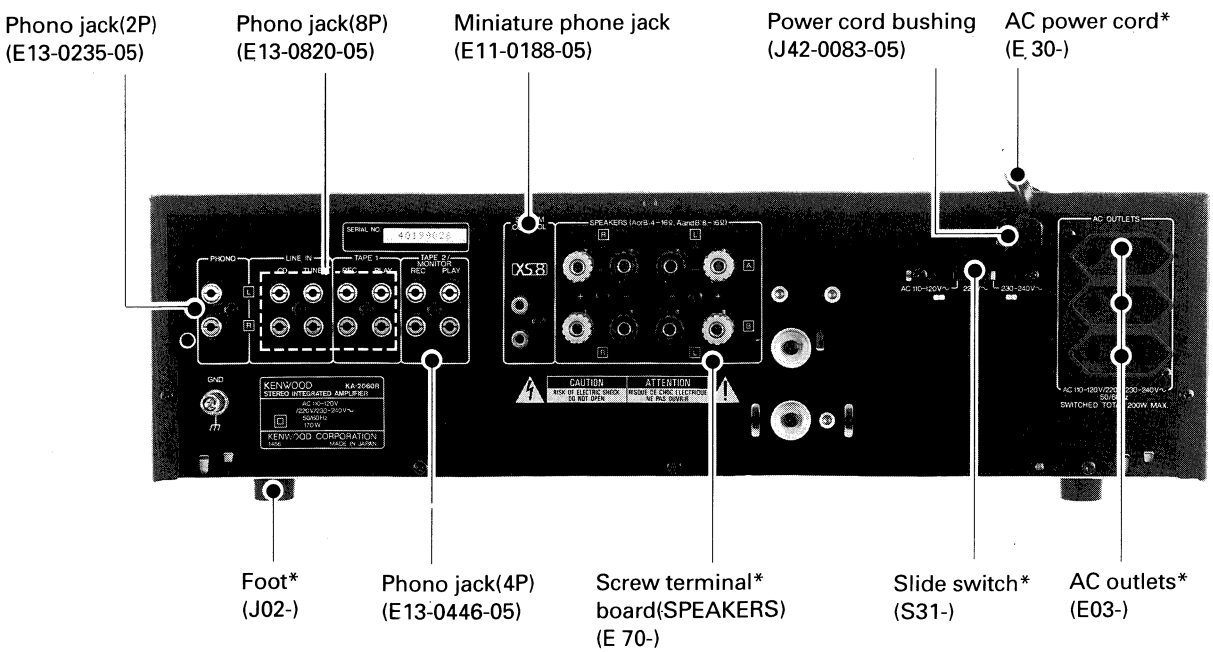


Photo is KA-2060R.

***Refer to parts list on page 16.**

Caution : Signal ground floats from chassis ground. Please connect the cold lead of tester or oscilloscope to the cold terminal of speaker or input jack if check and/or measure the voltage.(Don't connect ground of unit.)

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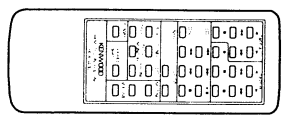
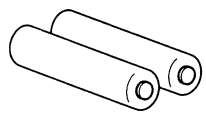
For remote control and new M- con M37470M4 - 189SP (X09 : IC4), Please refer to the manual of KA - 4060R.

Accessories

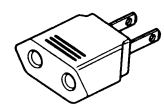
- Remote control unit 1
  (A70 - 0979 - 05)
  Battery cover : (A09 - 0159 - 08)

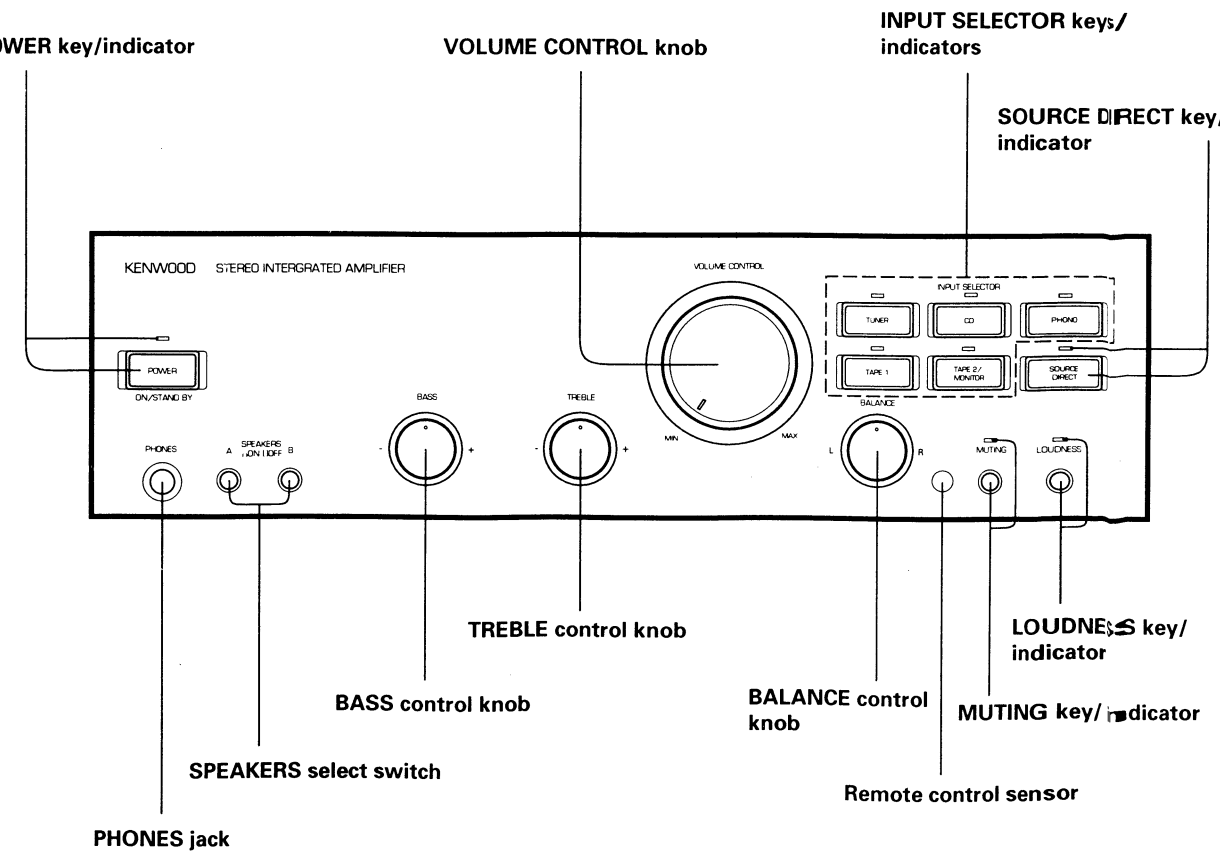


- Batteries (R03 / UM - 4 / "AAA") 2
  (–)



- AC plug adaptor 1
  (Except for U. K., Australia and Europe)
  For the unit with a European AC plug in areas other than Europe.
  (E03 - 0115 - 05)



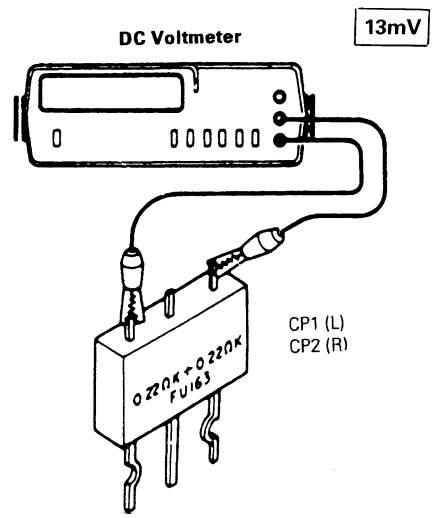


ADJUSTMENT

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
	Unless otherwise specified, set the respective switches as follows : POWER : ON SPEAKER : B REC OUT : OFF SELECTOR : PHONO						
1	IDLE CURRENT (KA-2060R)	–	Connect a DC voltmeter across TP 5, 6(L) TP 3, 4(R) (X09-)	VOLUME : 0	VR1 (L) VR2(R) (X09 -)	13mV	(a)
1	IDLE CURRENT (KA-3060R)	–	Connect a DC voltmeter across CP1(L) CP2(R) (X09-)	VOLUME : 0	VR1 (L) VR2(R) (X09 -)	13mV	(a)

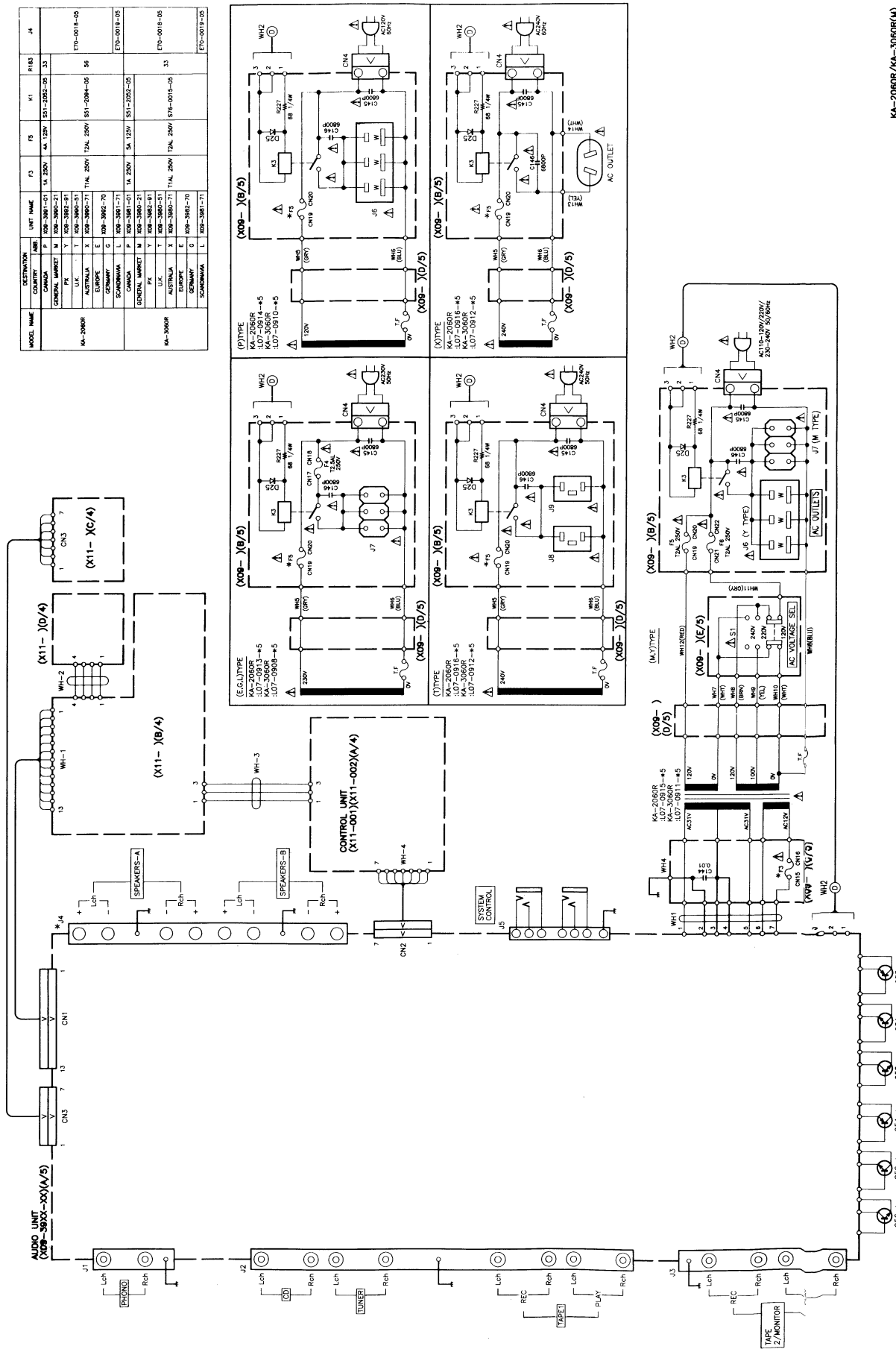
Caution : Signal ground floats from chassis ground.
Please connect the cold lead of tester or oscilloscope to the cold terminal of speaker or input jack if check and / or measure the voltage.
(Don't connect ground of unit.)



(a)

KA-2060R/3060R

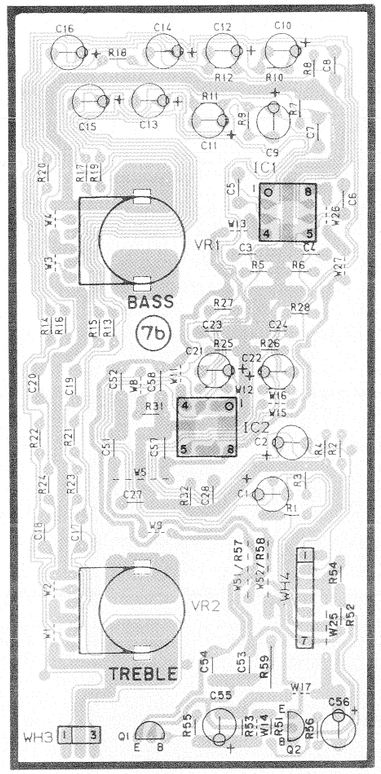
WIRING DIAGRAM

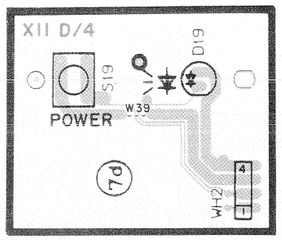


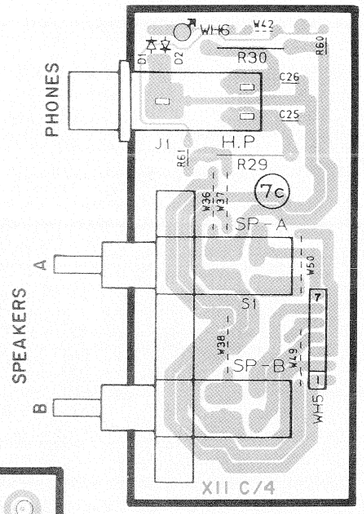
MODEL NAME	DESTINATION		UNIT NAME	F3	F5	K1	R183	J4
	COUNTRY	ABB.						
KA-2060R	GENERAL MARKET	W	X09-3891-01	1A 250V	4A 125V	S51-2052-05	33	E70-0018-05
	PX	T	X09-3892-61					
	U.K.	T	X09-3892-51	T1AL 250V	T2AL 250V	S51-2094-05	56	
	AUSTRALIA	X	X09-3892-71					
	EUROPE	E	X09-3892-70					
	GERMANY	G						E70-0019-05
	SCANDINAVIA	L	X09-3891-71					
KA-3060R	CANADA	P	X09-3881-01	1A 250V	5A 125V	S51-2052-05		E70-0018-05
	GENERAL MARKET	W	X09-3880-21					
	PX	T	X09-3880-61					
	U.K.	T	X09-3880-51	T1AL 250V	T2AL 250V	S76-0015-05	33	
	AUSTRALIA	X	X09-3880-71					
	EUROPE	E	X09-3882-70					
	GERMANY	G						E70-0019-05
	SCANDINAVIA	L	X09-3881-71					

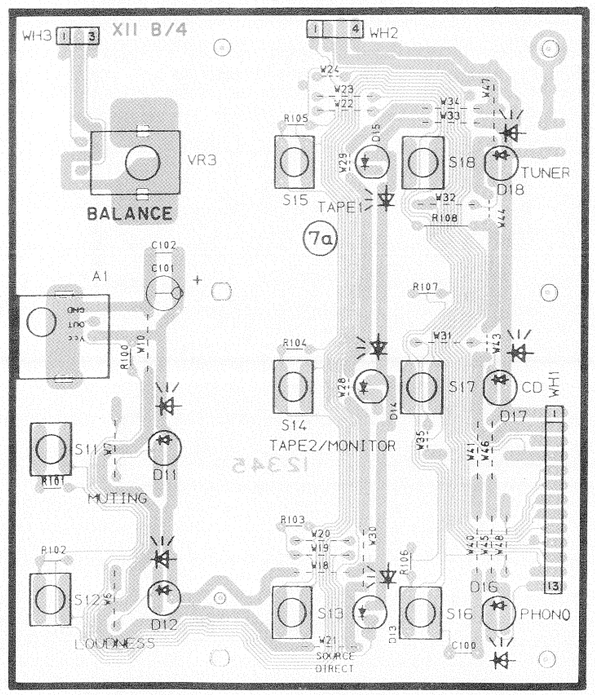
PC BOARD(Component side view) CONTROL UNIT(X11-00X)

X11-001
X11-002 A/4



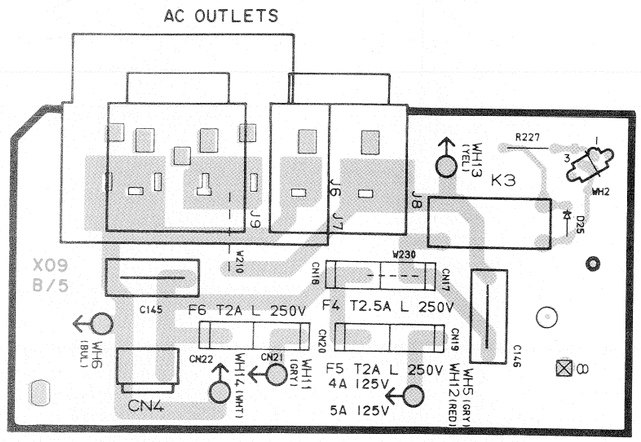


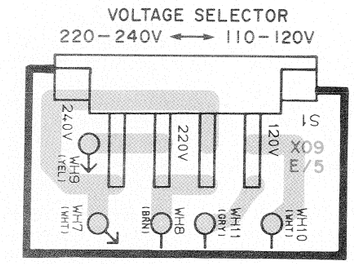


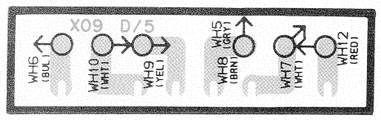


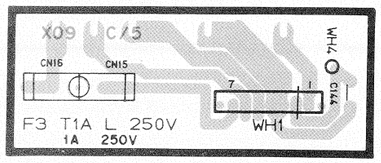
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view) AUDIO UNIT(X09-39XX-XX)









DC voltmeter

KA-3060R
Rch
(a) Idle current : 13mV

DC voltmeter

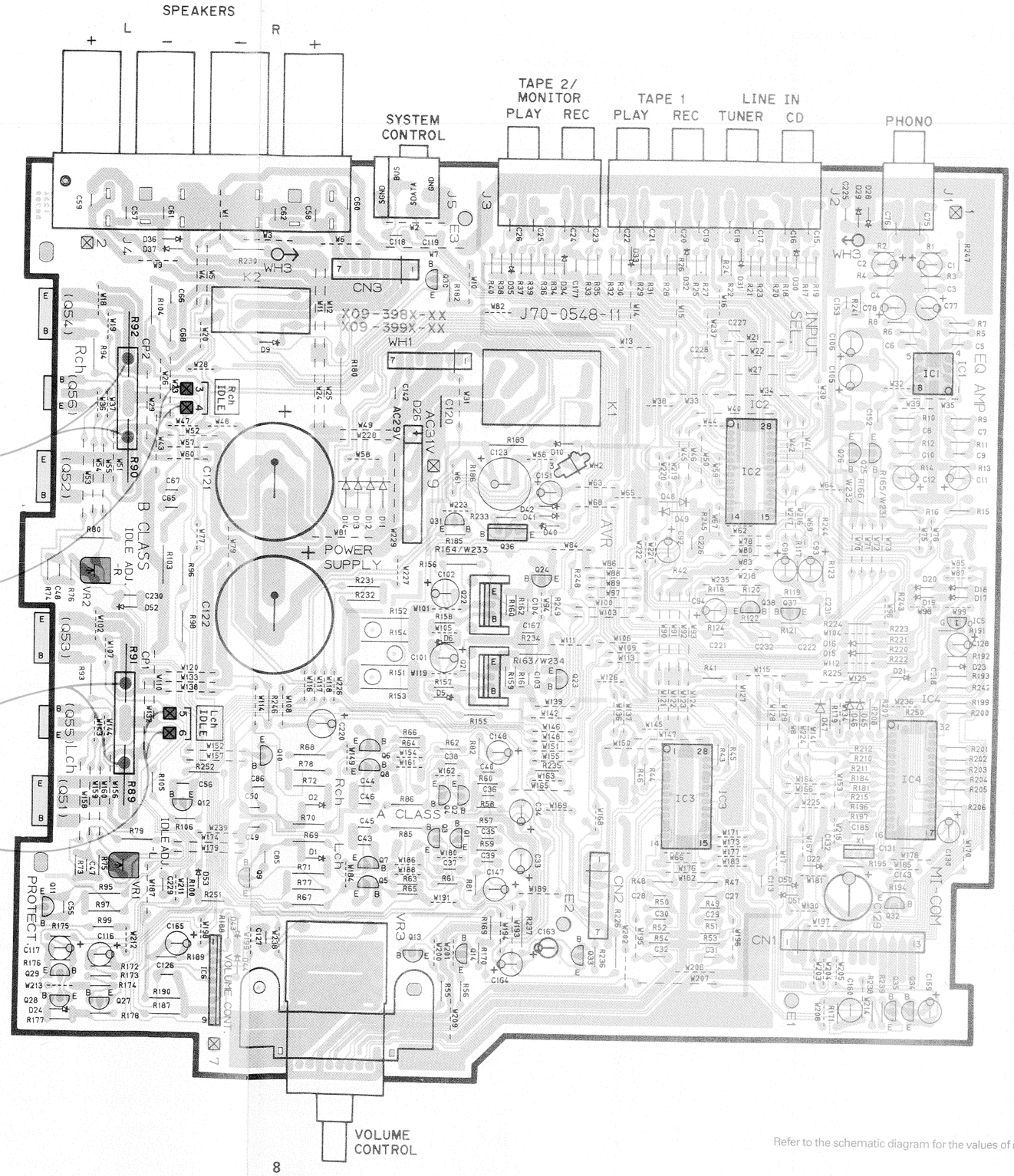
KA-2060R
Rch
(a) Idle current : 13mV

DC voltmeter

KA-3060R
Lch
(a) Idle current : 13mV

DC voltmeter

KA-2060R
Lch
(a) Idle current : 13mV

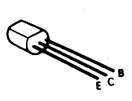


Refer to the schematic diagram for the values of resistors and capacitors.

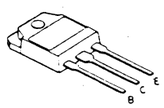
AUDIO UNIT (X09-39XX-XX)(A/5)

SIGNAL LINE
GND LINE
+BLINE
−B LINE
( ):3080R

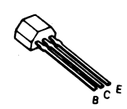
2SA934 2SC2060
2SA992 2SC2878
2SC1845
2SC2003



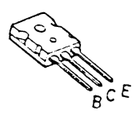
2SB1531BT＊5
2SD2340BT＊5



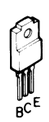
DTA124ES 2SC2458
DTC124ES
UN4112
2SA1048



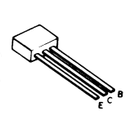
2SB1492BT＊5
2SD2254BT＊5



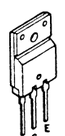
2SB1370
2SD2061



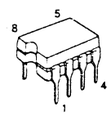
UN4212
2SA1309A
2SC3311A



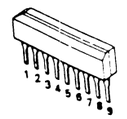
2SB1375
2SD2012



NJM4565D-D



TA8409S



NJM458

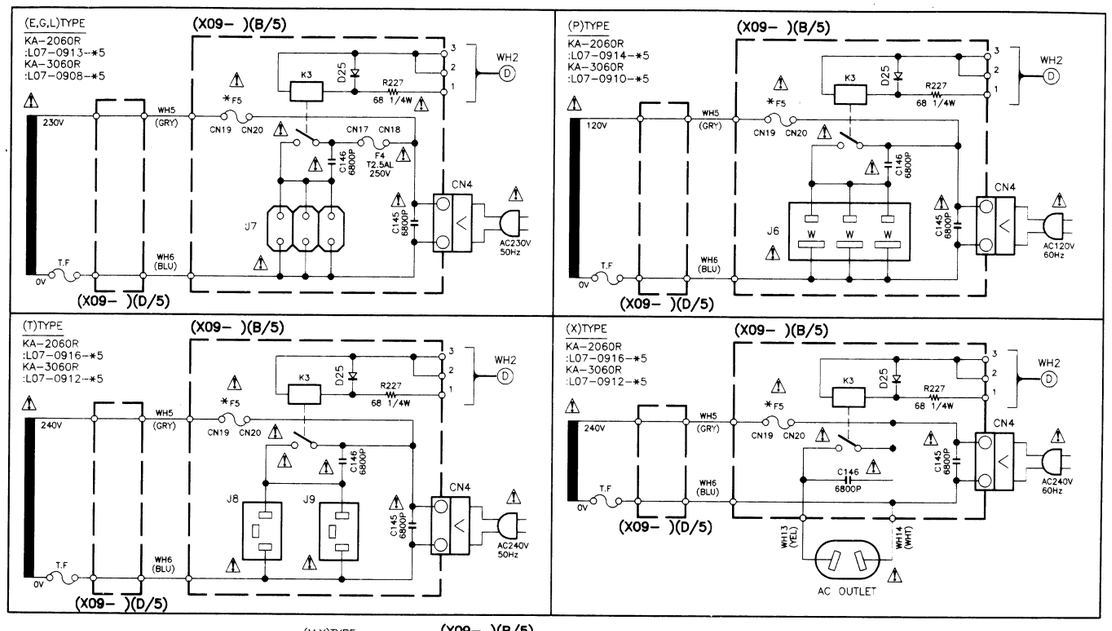
	A	R61,62	R81,82	R89~92	R151,152	R160	R165,166	R180	R238	R239	C37,38	C43,44	C85,86	C101,102	C121,122	C220	TP3~6	CP1,2	D5,6	Q22	Q51,52	Q53,54
KA-2060R	NO	9.1K	1.1K	YES	NO	6.8K	JUMPER	820	100K	10K	56P	120P	330P	100μ25	4700μ50	1μ100	YES	NO	RD15JS(B) or HZS15S(B)	2SB1370(E,F)	2SD2340BT#5	2SB1531BT#5
KA-3060R	YES	15K	1K	NO	YES	4.7K	YES	1K	120K	12K	100P	100P	220P	10μ50	6800μ50	10μ100	NO	YES	RD20JS(B2) or HZS20S(B2)	2SB1370(E,F) or 2SB1375	2SD2254BT#5	2SB1492BT#5

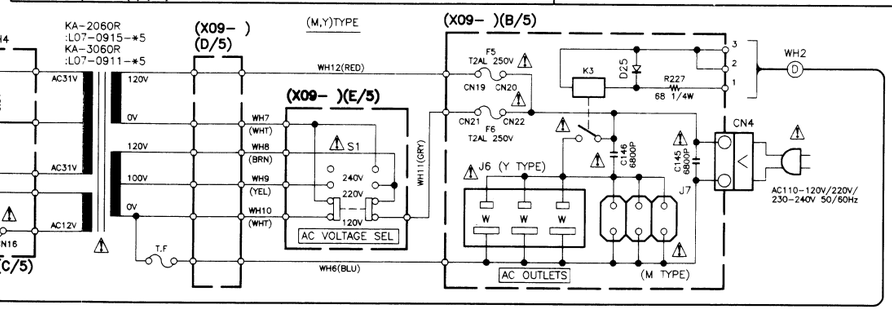
D1,2,9,10,15~23,25,28~37,41~51 :1SS133 or HSS104
D5,6 :*
D11~14 :S5688B
D24,40 :RD5.1JS(B2) or HZS5.1S(B2)
D26 :D5SBA20F03
D52,53 :HSS104A/1SS131

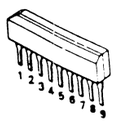
IC1 :NJM4580D-D
IC2 :TC9164N
IC3 :TC9162N
IC4 :M37470M4-189SP
IC5 :S-80740AL
IC6 :TA8409S

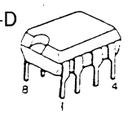
Q1~4,9~12,24,26,33,37,38 :2SC1845(F,E)
Q5~8,23,25 :2SA992(F,E)
Q13,14 :2SC2878(B)
Q21,36 :2SD2061(E,F) or 2SD2012
Q22 :*
Q27 :2SA1048(Y,GR) or 2SA1309A(Q,R)
Q28,29,32 :2SC2458(Y,GR) or 2SC3311A(Q,R)
Q30,31 :2SC2003(L,K)
Q34 :UN4212 or DTC124ES
Q35 :UN4112 or DTA124ES
Q51,52 :*
Q53,54 :*
Q55,56 :2SC4137F19(V,W)

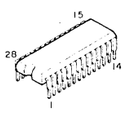
MODEL NAME	DESTINATION COUNTRY	ABB.	UNIT NAME	F3	F5	K1	R183	J4
KA-2060R	CANADA	P	X09-3991-01	1A 250V	4A 125V	S51-2052-05	33	E70-0018-05
	GENERAL MARKET	M	X09-3990-21	T1AL 250V	T2AL 250V	S51· 2094-05	56	
	PX	Y	X09-3992-91					
	U.K.	T	X09-3990-51					
	AUSTRALIA	X	X09-3990-71					
	EUROPE	E	X09-3992-70					
	GERMANY	G						
	SCANDINAVIA	L	X09-3991-71					E70-0019-05
KA-3060R	CANADA	P	X09-3981-01	1A 250V	5A 125V	S51-2052-05	33	E70-0018-05
	GENERAL MARKET	M	X09-3980-21	T1AL 250V	T2AL 250V	S76-0015-05		
	PX	Y	X09-3982-91					
	U.K.	T	X09-3980-51					
	AUSTRALIA	X	X09-3980-71					
	EUROPE	E	X09-3982-70					
	GERMANY	G						
	SCANDINAVIA	L	X09-3981-71					E70-0019-05

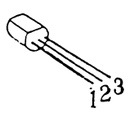




TA8409S 

NJM4580D-D 

TC9162N
TC9164N 

S-80740AL 

Signal ground floats from chassis ground, please connect the cold lead of tester or oscilloscope to the cold terminal of speaker or input jack if check and / or measure the voltage. (Don' t connect ground of unit.)

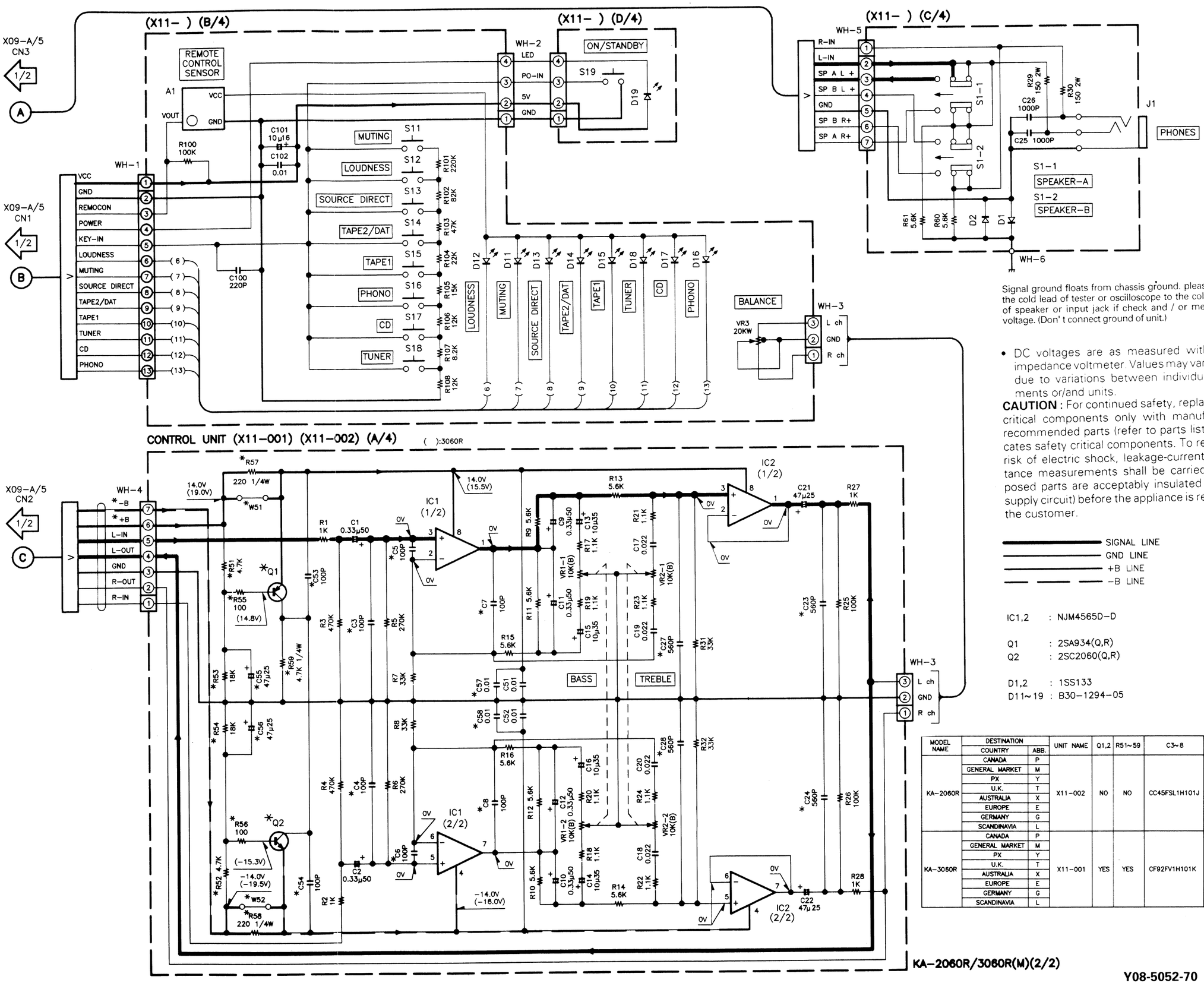
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y08-5052-70

KA-2060R/3060R

KENWOOD



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SIGNAL LINE
GND LINE
+B LINE
–B LINE

IC1,2 : NJM4565D–D

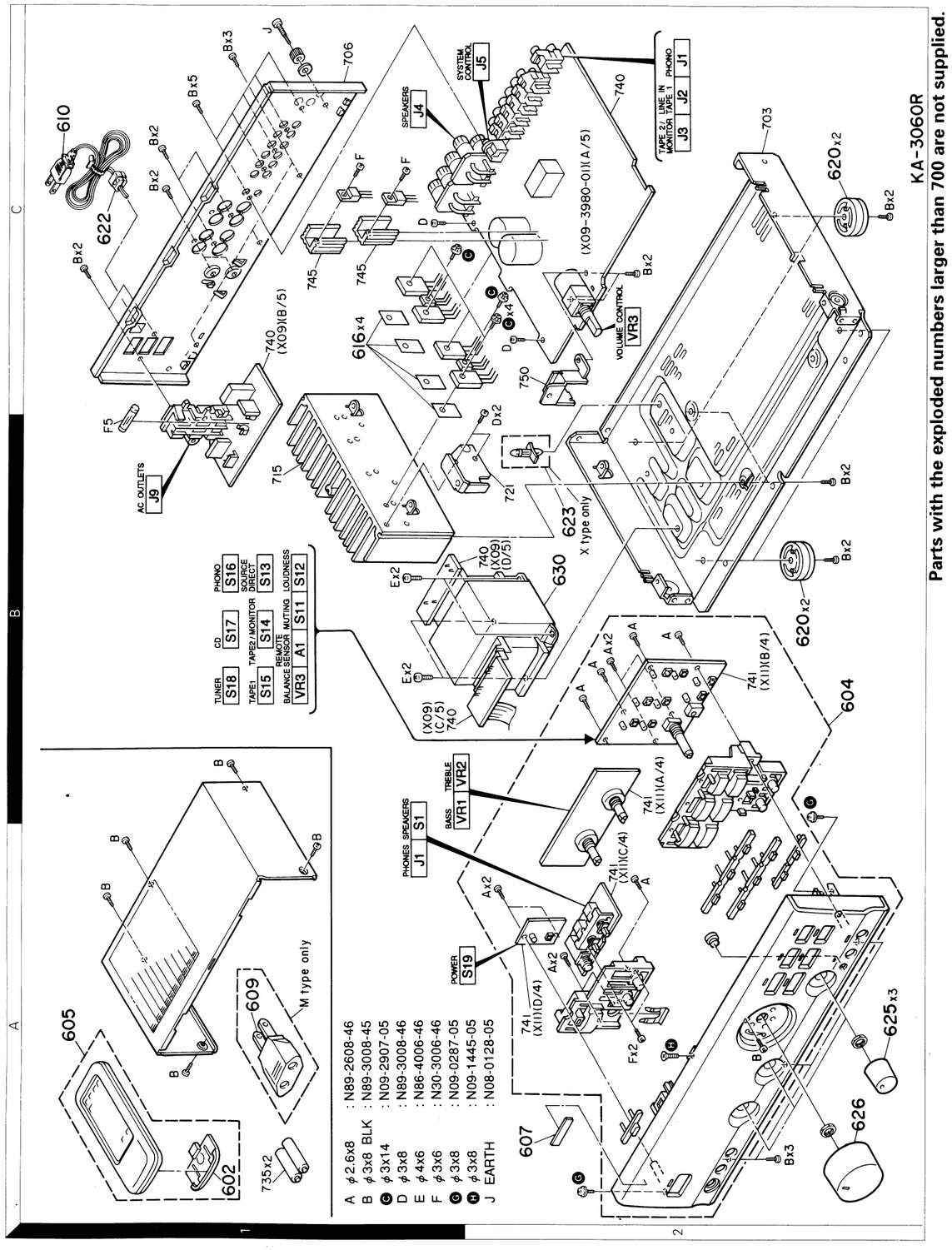
Q1 : 2SA934(Q,R)
Q2 : 2SC2060(Q,R)

D1,2 : 1SS133
D11~19 : B30–1294–05

MODEL NAME	DESTINATION		UNIT NAME	Q1,2	R51~59	C3~8	C23,24,27,28	C53~56	C57,58	W51, 52	–B	+B
	COUNTRY	ABB.										
KA–2060R	CANADA	P	X11–002	NO	NO	CC45FSL1H101J	CK45FB1H561J	NO	YES	YES	–13.5V	+13.5V
	GENERAL MARKET	M										
	PX	Y										
	U.K.	T										
	AUSTRALIA	X										
	EUROPE	E										
	GERMANY	G										
	SCANDINAVIA	L										
KA–3060R	CANADA	P	X11–001	YES	YES	CF92FV1H101K	CF92FV1H561J	YES	NO	NO	–19.5V	+19.5V
	GENERAL MARKET	M										
	PX	Y										
	U.K.	T										
	AUSTRALIA	X										
	EUROPE	E										
	GERMANY	G										
	SCANDINAVIA	L										

KA–2060R/3060R(M)(2/2)

EXPLODED VIEW



KA-3060R

Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

②

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
623	2B		J19-3331-05	UNIT HOLDER	X	
-			J61-0307-05	WIRE BAND		
625	2A		K29-4384-04	KNOB (BASS/TREBLE/BALANCE)		
626	2A	*	K29-5904-13	KNOB (VOLUME CONTROL)		
630	2B	*	L07-0908-05	POWER TRANSFORMER	EGL	3
630	2B	*	L07-0910-05	POWER TRANSFORMER	P	3
630	2B	*	L07-0911-05	POWER TRANSFORMER	YM	3
630	2B	*	L07-0912-05	POWER TRANSFORMER	XT	3
630	2B	*	L07-0913-05	POWER TRANSFORMER	EGL	2
630	2B	*	L07-0914-05	POWER TRANSFORMER	P	2
630	2B	*	L07-0915-05	POWER TRANSFORMER	YM	2
630	2B	*	L07-0916-05	POWER TRANSFORMER	XT	2
A	2A,2B		N89-2608-46	BINDING HEAD TAPTITE SCREW		
B	1A,1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
C	2C		N09-2907-05	TAPTITE WITH WASHER M3X14		
D	2C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
E	1B		N86-4006-46	BINDING HEAD TAPTITE SCREW		
G	2A,2B		N09-0287-05	TP HEAD TAPTITE SCREW M3X8		
H	2A		N09-1445-05	FLAT HEAD SET SCREW M3X8		
J	1C		N08-0128-35	BINDING POST (EARTH)		
				AUDIO UNIT(X09-398X-XX)		
C1 ,2	1C		CE04KW1V100M	ELECTRO 10UF 35WV		
C3 ,4	1A		CC45FSL1H101J	CERAMIC 100PF J		
C5 ,6	2A,2B	*	CK45FB1H681K	CERAMIC 6 00PF K		
C7 ,8	1A	*	CQ92FM1H123JBL	MYLAR 0.012UF J		
C9 ,10		*	CQ92FM1H332JBL	MYLAR 3300PF J		
C11 ,12			CE04KW1V100M	ELECTRO 10UF 35WV		
C15 -26			CC45FSL1H151J	CERAMIC 150PF J		
C27 ,28			CK45FB1H471K	CERAMIC 470PF K		
C29 ,30			CC45FSL1H331J	CERAMIC 330PF J		
C31 ,32			CQ92FM1H683JBL	MYLAR 0.068UF J		
C33 ,34			CE04KW2A010M	ELECTRO 1.0UF 100WV		
C35 ,36			CC45FSL1H100D	CERAMIC 10PF D		
C37 ,38			CC45FSL1H101J	CERAMIC 100PF J		
C39 ,40			CC45FSL1H101J	CERAMIC 100PF J		
C43 ,44			CC45FSL1H101J	CERAMIC 100PF J		
C45 ,46			CC45FSL1H121J	CERAMIC 120PF J		
C47 ,48			CK45FF1H103Z	CERAMIC 0.010UF Z		
C49 ,50			CQ92FM1H104JBL	MYLAR 0.10UF J		
C55 ,56			CK45FB1H222K	CERAMIC 2200PF K		
C57 -60			CQ92FM1H223JBL	MYLAR 0.022UF J		
C61 ,62			CK45FB1H102K	CERAMIC 1000PF K		
C65 -68			CQ92FM1H104JBL	MYLAR 0.10UF J		
C75 ,76			CC45FSL1H101J	CERAMIC 100PF J		
C77 ,78			CE04KW1A101M	ELECTRO 100UF 10WV		
C85 ,86			CC45FSL1H221J	CERAMIC 220PF J		
C91 ,92			CE04KW2A010M	ELECTRO 1.0UF 100WV		
C93 ,94			CE04KW2A2R2M	ELECTRO 2.2UF 100WV		
C101,102			CE04KW1H100M	ELECTRO 10UF 50WV		
C103,104			CQ92FM1H104JBL	MYLAR 0.10UF J		
C105,106			CE04KW1C470M	ELECTRO 4 UF 16WV		
C113			CK45FB1H561K	CERAMIC 560PF K		
C116			CE04KW1C101M	ELECTRO 100UF 16WV		

L:Scandinavia K:USA P:Canada R:Mexico **2:KA-2060R**
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①

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				KA-2060R/3060R		
601	1A	*	A01-3120-01	METALLIC CABINET		
602	1A		A09-0159-08	BATTERY COVER		
604	2A,2B	*	A60-0563-05	PANEL ASSY		3
604	2A,2B	*	A60-0565-05	PANEL ASSY		2
605	1A		A70-0979-05	REMOTE CONTROLLER ASSY		
607	2A		B43-0287-04	KENWOOD BADGE	Y	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	X	
-			B46-0096-43	WARRANTY CARD	P	
-			B46-0121-33	WARRANTY CARD		
-			B46-0310-03	WARRANTY CARD (PRESSET220-240)	EGLT	
-		*	B58-0944-04	CAUTION CARD (U)	Y	
-		*	B58-0965-03	CAUTION CARD (PL PTX TYPE)	PXT	
-		*	B58-0966-03	CAUTION CARD (PL ELM TYPE)	ELM	
-		*	B58-0970-03	CAUTION CARD (PL R TYPE)	G	
-		*	B60-1570-00	INSTRUCTION MANUAL (EN)	ELPYMX	
-		*	B60-1570-00	INSTRUCTION MANUAL (EN)	T	
-		*	B60-1571-00	INSTRUCTION MANUAL (FR)	ELP	
-		*	B60-1572-00	INSTRUCTION MANUAL (D/I)	EL	
-		*	B60-1573-00	INSTRUCTION MANUAL (SP)	E	
-		*	B60-1574-00	INSTRUCTION MANUAL (C)	M	
-		*	B60-1675-00	INSTRUCTION MANUAL (G)	EGL	
609	1A		E03-0115-05	AC PLUG ADAPTER	M	
610	1C		E30-2592-15	AC POWER CORD	EGLM	
610	1C		E30-2650-05	AC POWER CORD	P	
610	1C		E30-2717-05	AC POWER CORD	X	
610	1C		E30-2721-05	AC POWER CORD	T	
610	1C		E30-2739-05	AC POWER CORD	Y	
J9	1B		E03-0141-05	AC OUTLET	X	
616	1C		F20-1284-05	INSULATING BOARD		2
616	1C		F20-1322-05	INSULATING BOARD		3
-		*	F20-1401-04	INSULATING BOARD	EGLYM	3
-		*	F20-1401-04	INSULATING BOARD	XT	3
-		*	H50-1017-04	ITEM CARTON CASE	EGLPY	3
-		*	H50-1017-04	ITEM CARTON CASE	MX	3
-		*	H50-1021-04	ITEM CARTON CASE	T	3
-		*	H50-1021-04	ITEM CARTON CASE	EGLPY	2
-		*	H50-1021-04	ITEM CARTON CASE	MX	2
-		*	H50-1022-04	ITEM CARTON CASE	T	2
-		*	H10-5744-02	POLYSTYRENE FOAMED FIXTURE (L)		
-		*	H10-5745-02	POLYSTYRENE FOAMED FIXTURE (R)		
-		*	H12-2194-04	PACKING FIXTURE	T	
-		*	H13-0156-04	CARTON BOARD	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	EGLPYM	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	X	
-			H25-0382-04	PROTECTION BAG		
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
620	2C		J02-1013-05	FOOT REAR		2
620	2B,2C		J02-1024-05	FOOT FRONT		2
620	2B,2C		J02-1034-05	FOOT		3
622	1C		J42-0083-05	POWER CORD BUSHING		

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❸

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C117			CE04KW1A101M	ELECTR⊘ 100UF 10WV		
C118,119			CC45FSL1H221J	CERAMIC 220PF J		
C120			CK45FE2H103P	CERAMIC 0.010UF P		
C121,122		*	C90-3560-05	ELECTR⊘ 6800UF 50WV		
C123			CE04KW1E102M	ELECTR⊘ 1000UF 25WV		
C126			CQ92FM1H683JEL	MYLAR 0.068UF J		
C127			CK45FF1H473Z	CERAMIC 0.047UF Z		
C128			CE04KW1H010M	ELECTR⊘ 1.0UF 50WV		
C129			C90-1827-05	BACKUP 0.047F 5.5WV		
C130			CE04KW1A101M	ELECTR⊘ 100UF 10WV		
C131			CK45FF1H103Z	CERAMIC 0.010UF Z		
C132			CC45FSL1H221J	CERAMIC 220PF J		
C142,143			CK45FF1H103Z	CERAMIC 0.010UF Z		
C144			CQ92FM1H103JEL	MYLAR 0.010UF J		
⚠ C145,146			C91-1488-05	MF 6800PF 250VAC		
C147,148			CE04KW1A101M	ELECTR⊘ 100UF 10WV		
C151			CE04KW1A101M	ELECTR⊘ 100UF 10WV		
C152			CQ92FM1H103JEL	MYLAR 0.010UF J		
C153			CF92FV1H103J	MF 0.010UF J		
C159			CE04KW1H010M	ELECTR⊘ 1.0UF 50WV		
C160			CE04HW1E100M	NP-ELEC 10UF 25WV		
C163			C90-3568-05	ELECTR⊘ 1UF 50WV		
C164			CE04KW1H010M	ELECTR⊘ 1.0UF 50WV		
C165			CE04KW1V100M	ELECTR⊘ 10UF 35WV		
C167			CQ92FM1H104JEL	MYLAR 0.10UF J		
C177			CQ92FM1H102JEL	MYLAR 1000PF J		
C185		*	CQ92FM1H123JEL	MYLAR 0.012UF J		
C218			CK45FF1H103Z	CERAMIC 0.010UF Z		
C220			CE04KW2A100M	ELECTR⊘ 10UF 100WV		
C221,222			CQ92FM1H104JEL	MYLAR 0.10UF J		
C225			CQ92FM1H102JEL	MYLAR 1000PF J		
C226			CK45FB1H561K	CERAMIC 560PF K		
C227,228			CC45FSL1H181J	CERAMIC 180PF J		
C229,230			CF92FV1H101K	MF 100PF K		
C231,232			CC45FSL1H331J	CERAMIC 330PF J		
J1			E13-0235-05	PH⊘NE⊘ JACK(2P) PH⊘NE⊘		
J2			E13-0820-05	PH⊘NE⊘ JACK(8P) LINE IN/TAPE 1		
J3			E13-0446-05	PH⊘NE⊘ JACK(4P) TAPE 2/M⊘NITE⊘R		
J4			E70-0018-05	SCREW TERMINAL B⊘ARD SPEAKERS	EGPYMX	
J4			E70-0018-05	SCREW TERMINAL B⊘ARD SPEAKERS	T	
J4			E70-0019-05	SCREW TERMINAL B⊘ARD SPEAKERS	L	
J5			E11-0188-05	MINIATURE PH⊘NE JACK S.C⊘NTR⊘L		
⚠ J6		*	E03-0306-05	AC ⊘UTLET	PY	
⚠ J7			E03-0147-05	AC ⊘UTLET	EGLM	
⚠ J8 ,9			E03-0109-05	AC ⊘UTLET	T	
⚠ F3			F04-1026-05	FUSE (UL) (250V 1A)	P	
⚠ F3			F06-1022-05	FUSE (SEMK⊘) (250V T1AL)	EGLYMX	
⚠ F3			F06-1022-05	FUSE (SEMK⊘) (250V T1AL)	T	
⚠ F4			F05-2525-05	FUSE (SEMK⊘) (250V T2.5AL)	EGL	
⚠ F5			F04-5022-05	FUSE (UL) (125V 5A UL)	P	
⚠ F5			F06-2021-05	FUSE (SEMK⊘) (250V T2AL)	EGLYMX	
⚠ F5			F06-2021-05	FUSE (SEMK⊘) (250V T2AL)	T	
⚠ F6			F06-2021-05	FUSE (SEMK⊘) (250V T2AL)	YM	
-			J11-0098-05	WIRE CLAMPER		

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❹

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CN15,16			J13-0075-05	FUSE CLIP		
CN17,18			J13-0075-05	FUSE CLIP	EGL	
CN19,20			J13-0075-05	FUSE CLIP		
CN21,22			J13-0075-05	FUSE CLIP	YM	
X1			L78-0290-05	RES⊘NAT⊘R (8MHZ)		
B	2C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
F	1C,2A		N30-3006-46	PAN HEAD MACHINE SCREW		
CP1 ,2			R90-0888-05	MULTIPLE RESISTOR (0.33X2 5W)		
⚠ R67 ,68			RD14AB2E680JTS	FL-PR⊘⊘F RD 68 J 1/4W		
R69 ,70			RD14AB2E472JTS	FL-PR⊘⊘F RD 4.7K J 1/4W		
R71 ,72			RD14AB2E680JTS	FL-PR⊘⊘F RD 68 J 1/4W		
⚠ R77 ,78			RD14AB2E680JTS	FL-PR⊘⊘F RD 68 J 1/4W		
R79 ,80			RD14AB2E101JTS	FL-PR⊘⊘F RD 100 J 1/4W		
R81 ,82			RN14BK2C1001F	RN 1.00K F 1/6W		
R85 ,86			RN14BK2E1003F	RN 100K F 1/4W		
R93 ,94			RD14AB2E101JTS	FL-PR⊘⊘F RD 100 J 1/4W		
R95 ,96			RD14AB2E392JTS	FL-PR⊘⊘F RD 3.9K J 1/4W		
R97 ,98			RD14AB2E102JTS	FL-PR⊘⊘F RD 1.0K J 1/4W		
R103,104			RS14DB3A100JTE	FL-PR⊘⊘F RS 10 J 1W		
⚠ R151-154			RS14DB3D561JTE	FL-PR⊘⊘F RS 560 J 2W		
R163,164			RN14BK2E2400F	RN 240.0 F 1/4W		
R165,166			RN14BK2C3300F	RN 330.0 F 1/6W		
R180			RS14DB3D102JTE	FL-PR⊘⊘F RS 1.0K J 2W		
R183			RS14DB3A330JTE	FL-PR⊘⊘F RS 33 J 1W		
R186			RD14AB2E470JTS	FL-PR⊘⊘F RD 47 J 1/4W		
⚠ R187			RD14AB2E100JTS	FL-PR⊘⊘F RD 10 J 1/4W		
R190			RD14AB2E100JTS	FL-PR⊘⊘F RD 10 J 1/4W		
R226			RN14BK2E5600F	RN 560.0 F 1/4W		
R227			RD14AB2E680JTS	FL-PR⊘⊘F RD 68 J 1/4W		
R230			RN14BK2E22R0F	RN 22.0 F 1/4W		
R231,232			RN14BK2E3301F	RN 3.30K F 1/4W		
R234			RN14BK2C1002F	RN 10.0K F 1/6W		
R237			RN14BK2C4701F	RN 4.70K F 1/6W		
R241			RN14BK2C4701F	RN 4.70K F 1/6W		
R246			RD14AB2E100JTS	FL-PR⊘⊘F RD 10 J 1/4W		
R248,249			RN14BK2C1001F	RN 1.00K F 1/6W		
R251,252			RN14BK2C1503F	RN 150K F 1/6W		
VR1 ,2			R12-1616-05	TRIMMING P⊘T.(1K) IDLE ADJ.		
VR3		*	R31-0010-05	VARIABLE RESISTOR(100K) V⊘LUME		
K1			S51-2052-05	MAGNETIC RELAY	P	
K1			S76-0015-05	MAGNETIC RELAY	EGLYMX	
K1			S76-0015-05	MAGNETIC RELAY	T	
K2			S76-0005-05	MAGNETIC RELAY		
⚠ K3			S76-0009-05	MAGNETIC RELAY		
⚠ S1			S31-2322-05	SLIDE SWITCH AC V⊘LTAGE SEL	YM	
D1 ,2			HSS104	DI⊘DE		
D1 ,2			1SS133	DI⊘DE		
D5 ,6			HZS20S(B2)	ZENER DI⊘DE		
D5 ,6			RD20JS(B2)	ZENER DI⊘DE		
D9 ,10			HSS104	DI⊘DE		
D9 ,10			1SS133	DI⊘DE		
⚠ D11 -14			S5688B	DI⊘DE		

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5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
D15 -23			HSS104	DIODE		
D15 -23			1SS133	DIODE		
D24			HZS5.1S(B2)	ZENER DIODE		
D24			RD5.1JS(B2)	ZENER DIODE		
D25			HSS104	DIODE		
D25			1SS133	DIODE		
⚠ D26			D5SBA20F03	DIODE		
D28 -37			HSS104	DIODE		
D28 -37			1SS133	DIODE		
D40			HZS5.1S(B2)	ZENER DIODE		
D40			RD5.1JS(B2)	ZENER DIODE		
D41 -51			HSS104	DIODE		
D41 -51			1SS133	DIODE		
D52 ,53			HSS104A	DIODE		
D52 ,53			1SS131	DIODE		
IC1			NJM4580D-D	IC(OP AMP X2)		
IC2			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC3			TC9162N	IC(ANALOG SWITCH ARRAY)		
IC4			M37470M4-189SP	MI-COM IC		
IC5			S-80740AL	IC(VOLTAGE DETECTOR)		
IC6			TA8409S	IC(MOTOR CONTROL)		
Q1 -4			2SC1845(F,E)	TRANSISTOR		
Q5 -8			2SA992(F,E)	TRANSISTOR		
Q9 -12			2SC1845(F,E)	TRANSISTOR		
Q13 ,14			2SC2878(B)	TRANSISTOR		
Q21			2SD2012	TRANSISTOR		
Q21			2SD2061(E,F)	TRANSISTOR		
Q22			2SB1370(E,F)	TRANSISTOR		
Q22			2SB1375	TRANSISTOR		
Q23			2SA992(F,E)	TRANSISTOR		
Q24			2SC1845(F,E)	TRANSISTOR		
Q25			2SA992(F,E)	TRANSISTOR		
Q26			2SC1845(F,E)	TRANSISTOR		
Q27			2SA1048(Y,GR)	TRANSISTOR		
Q27			2SA1309A(Q,R)	TRANSISTOR		
Q28 ,29			2SC2458(Y,GR)	TRANSISTOR		
Q28 ,29			2SC3311A(Q,R)	TRANSISTOR		
Q30 ,31			2SC2003(L,K)	TRANSISTOR		
Q32			2SC2458(Y,GR)	TRANSISTOR		
Q32			2SC3311A(Q,R)	TRANSISTOR		
Q33			2SC1845(F,E)	TRANSISTOR		
Q34			DTC124ES	DIGITAL TRANSISTOR		
Q34			UN4212	TRANSISTOR		
Q35			DTA124ES	DIGITAL TRANSISTOR		
Q35			UN4112	TRANSISTOR		
⚠ Q36			2SD2012	TRANSISTOR		
⚠ Q36			2SD2061(E,F)	TRANSISTOR		
Q37 ,38			2SC1845(F,E)	TRANSISTOR		
⚠ Q51 ,52		*	2SD2254BT*5	TRANSISTOR		
⚠ Q53 ,54		*	2SB1492BT*5	TRANSISTOR		
⚠ Q55 ,56			2SC4137F19(V,W)	TRANSISTOR		
AUDIO UNIT(X09-399X-XX)						
C1 ,2			CE04KW1V100M	ELECTRO 10UF 35WV		
C3 ,4			CC45FSL1H101J	CERAMIC 100PF J		

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C5 ,6			CK45FB1H681K	CERAMIC 680PF K		
C7 ,8		*	CQ92FM1H123JEL	MYLAR 0.012UF J		
C9 ,10			CQ92FM1H332JEL	MYLAR 3300PF J		
C11 ,12			CE04KW1V100M	ELECTRO 10UF 35WV		
C15 -26			CC45FSL1H151J	CERAMIC 150PF J		
C27 ,28			CK45FB1H471K	CERAMIC 470PF K		
C29 ,30			CC45FSL1H331J	CERAMIC 330PF J		
C31 ,32			CQ92FM1H683JEL	MYLAR 0.068UF J		
C33 ,34			CE04KW2A010M	ELECTRO 1.0UF 100WV		
C35 ,36			CC45FSL1H101J	CERAMIC 100PF J		
C37 ,38			CC45FSL1H560J	CERAMIC 56PF J		
C39 ,40			CC45FSL1H101J	CERAMIC 100PF J		
C43 -46			CC45FSL1H121J	CERAMIC 120PF J		
C47 ,48			CK45FF1H103Z	CERAMIC 0.010UF Z		
C49 ,50			CQ92FM1H104JEL	MYLAR 0.10UF J		
C55 ,56			CK45FB1H222K	CERAMIC 2200PF K		
C57 -60			CQ92FM1H223JEL	MYLAR 0.022UF J		
C61 ,62			CK45FB1H102K	CERAMIC 1000PF K		
C65 -68			CQ92FM1H104JEL	MYLAR 0.10UF J		
C75 ,76			CC45FSL1H101J	CERAMIC 100PF J		
C77 ,78			CE04KW1A101M	ELECTRO 100UF 10WV		
C85 ,86			CC45FSL1H331J	CERAMIC 330PF J		
C91 ,92			CE04KW2A010M	ELECTRO 1.0UF 100WV		
C93 ,94			CE04KW2A2R2M	ELECTRO 2.2UF 100WV		
C101,102			CE04KW1E101M	ELECTRO 100UF 25WV		
C104			CQ92FM1H104JEL	MYLAR 0.10UF J		
C105,106			CE04KW1C470M	ELECTRO 47UF 16WV		
C113			CK45FB1H561K	CERAMIC 560PF K		
C116			CE04KW1C101M	ELECTRO 100UF 16WV		
C117			CE04KW1A101M	ELECTRO 100UF 10WV		
C118,119			CC45FSL1H221J	CERAMIC 220PF J		
C120			CK45FE2H103P	CERAMIC 0.010UF P		
C121,122		*	C90-3561-05	ELECTRO 4700UF 50WV		
C123			CE04KW1E102M	ELECTRO 1000UF 25WV		
C126			CQ92FM1H683JEL	MYLAR 0.068UF J		
C127			CK45FF1H473Z	CERAMIC 0.047UF Z		
C128			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C129			C90-1827-05	BACKUP 0.047F 5.5WV		
C130			CE04KW1A101M	ELECTRO 100UF 10WV		
C131			CK45FF1H103Z	CERAMIC 0.010UF Z		
C132			CC45FSL1H221J	CERAMIC 220PF J		
C142,143			CK45FF1H103Z	CERAMIC 0.010UF Z		
C144			CQ92FM1H103JEL	MYLAR 0.010UF J		
⚠ C145,146			C91-1488-05	MF 6800PF 250VAC		
C147,148			CE04KW1A101M	ELECTRO 100UF 10WV		
C151			CE04KW1A101M	ELECTRO 100UF 10WV		
C152			CQ92FM1H103JEL	MYLAR 0.010UF J		
C159			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C160			CE04HW1E100M	NP-ELEC 10UF 25WV		
C163			C90-3568-05	ELECTRO 1UF 50WV		
C164			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C165			CE04KW1V100M	ELECTRO 10UF 35WV		
C177			CQ92FM1H102JEL	MYLAR 1000PF J		
C185		*	CQ92FM1H123JEL	MYLAR 0.012UF J		
C218			CK45FF1H103Z	CERAMIC 0.010UF Z		

L:Scandinavia K:USA P:Canada R:Mexico 2:KA-2060R
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＊ New Parts
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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C220			CE04KW2A010M	ELECTRO 1.0UF 100WV		
C221,222			CQ92FM1H104JEL	MYLAR 0.10UF J		
C225			CQ92FM1H102JEL	MYLAR 1000PF J		
C226			CK45FB1H561K	CERAMIC 560PF K		
C227,228			CC45FSL1H181J	CERAMIC 180PF J		
C229,230			CF92FV1H101K	MF 100PF K		
C231,232			CC45FSL1H331J	CERAMIC 330PF J		
J1			E13-0235-05	PHONO JACK(2P) PHONO		
J2			E13-0820-05	PHONO JACK(8P) LINE IN/TAPE 1		
J3			E13-0446-05	PHONO JACK(4P) TAPE 2/MONITOR		
J4			E70-0018-05	SCREW TERMINAL BOARD SPEAKERS	EGPYMX	
J4			E70-0018-05	SCREW TERMINAL BOARD SPEAKERS	T	
J4			E70-0019-05	SCREW TERMINAL BOARD SPEAKERS	L	
J5			E11-0188-05	MINIATURE PHONE JACK S.CONTROL		
⚠ J6		*	E03-0306-05	AC OUTLET	PY	
⚠ J7			E03-0147-05	AC OUTLET	EGLM	
⚠ J8 ,9			E03-0109-05	AC OUTLET	T	
⚠ F3			F04-1026-05	FUSE (UL) (250V 1A)	P	
⚠ F3			F06-1022-05	FUSE (SEMKO) (250V T1AL)	EGLYMX	
⚠ F3			F06-1022-05	FUSE (SEMKO) (250V T1AL)	T	
⚠ F4			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	EGL	
⚠ F5			F05-4028-05	FUSE (UL) (125V 4A)	P	
⚠ F5			F06-2021-05	FUSE (SEMKO) (250V T2AL)	EGLYMX	
⚠ F5			F06-2021-05	FUSE (SEMKO) (250V T2AL)	T	
⚠ F6			F06-2021-05	FUSE (SEMKO) (250V T2AL)	YM	
-			J11-0098-05	WIRE CLAMPER		
CN15,16			J13-0075-05	FUSE CLIP		
CN17,18			J13-0075-05	FUSE CLIP	EGL	
CN19,20			J13-0075-05	FUSE CLIP		
CN21,22			J13-0075-05	FUSE CLIP	YM	
X1			L78-0290-05	RESONATOR (8MHZ)		
⚠ R67 ,68			RD14AB2E680JTS	FL-PROOF RD 68 J 1/4W		
R69 ,70			RD14AB2E472JTS	FL-PROOF RD 4.7K J 1/4W		
R71 ,72			RD14AB2E680JTS	FL-PROOF RD 68 J 1/4W		
⚠ R77 ,78			RD14AB2E680JTS	FL-PROOF RD 68 J 1/4W		
R79 ,80			RD14AB2E101JTS	FL-PROOF RD 100 J 1/4W		
R81 ,82			RN14BK2C1101F	RN 1.10K F 1/6W		
R85 ,86			RN14BK2E1003F	RN 100K F 1/4W		
R89 -92		*	RS14GB3DR33JKW	FL-PROOF RS 0.33 J 2W		
R93 ,94			RD14AB2E101JTS	FL-PROOF RD 100 J 1/4W		
R95 ,96			RD14AB2E392JTS	FL-PROOF RD 3.9K J 1/4W		
R97 ,98			RD14AB2E102JTS	FL-PROOF RD 1.0K J 1/4W		
R103,104			RS14DB3A100JTE	FL-PROOF RS 10 J 1W		
⚠ R153,154			RS14DB3D561JTE	FL-PROOF RS 560 J 2W		
R180			RS14DB3D821JTE	FL-PROOF RS 820 J 2W		
R183			RS14DB3A330JTE	FL-PROOF RS 33 J 1W	P	
R183			RS14DB3A560JTE	FL-PROOF RS 56 J 1W	EGLYMX	
R183			RS14DB3A560JTE	FL-PROOF RS 56 J 1W	T	
R186			RD14AB2E470JTS	FL-PROOF RD 47 J 1/4W		
⚠ R187			RD14AB2E100JTS	FL-PROOF RD 10 J 1/4W		
R190			RD14AB2E100JTS	FL-PROOF RD 10 J 1/4W		
R226			RN14BK2E5600F	RN 560.0 F 1/4W		
R227			RD14AB2E680JTS	FL-PROOF RD 68 J 1/4W		

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R230			RN14BK2E22R0F	RN 22.0 F 1/4W		
R231,232			RN14BK2E3301F	RN 3.30K F 1/4W		
R237			RN14BK2C4701F	RN 4.70K F 1/6W		
R246			RD14AB2E100JTS	FL-PROOF RD 10 J 1/4W		
R248,249			RN14BK2C1001F	RN 1.00K F 1/6W		
R251,252			RN14BK2C1503F	RN 150K F 1/6W		
VR1 ,2			R12-1616-05	TRIMMING POT.(1K) ADJE ADJ.		
VR3		*	R31-0010-05	VARIABLE RESISTOR(100K) VOLUME		
K1			S51-2052-05	MAGNETIC RELAY	P	
K1			S51-2094-05	MAGNETIC RELAY	EGLYMX	
K1			S51-2094-05	MAGNETIC RELAY	T	
K2			S76-0005-05	MAGNETIC RELAY		
⚠ K3			S76-0009-05	MAGNETIC RELAY		
⚠ S1			S31-2322-05	SLIDE SWITCH AC VOLTAGE SEL	YM	
D1 ,2			HSS104	DIODE		
D1 ,2			1SS133	DIODE		
D5 ,6			HZS15S(B)	ZENER DIODE		
D5 ,6			RD15JS(B)	ZENER DIODE		
D9 ,10			HSS104	DIODE		
D9 ,10			1SS133	DIODE		
⚠ D11 -14			S5688B	DIODE		
D15 -23			HSS104	DIODE		
D15 -23			1SS133	DIODE		
D24			HZS5.1S(B2)	ZENER DIODE		
D24			RD5.1JS(B2)	ZENER DIODE		
D25			HSS104	DIODE		
D25			1SS133	DIODE		
⚠ D26			D5SBA20F03	DIODE		
D28 -37			HSS104	DIODE		
D28 -37			1SS133	DIODE		
D40			HZS5.1S(B2)	ZENER DIODE		
D40			RD5.1JS(B2)	ZENER DIODE		
D41 -51			HSS104	DIODE		
D41 -51			1SS133	DIODE		
D52 ,53			HSS104A	DIODE		
D52 ,53			1SS131	DIODE		
IC1			NJM4580D-D	IC(OP AMP X2)		
IC2			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC3			TC9162N	IC(ANALOG SWITCH ARRAY)		
IC4			M37470M4-189SP	MI-COM IC		
IC5			S-80740AL	IC(VOLTAGE DETECTOR)		
IC6			TA8409S	IC(MOTOR CONTROL)		
Q1 -4			2SC1845(F,E)	TRANSISTOR		
Q5 -8			2SA992(F,E)	TRANSISTOR		
Q9 -12			2SC1845(F,E)	TRANSISTOR		
Q13 ,14			2SC2878(B)	TRANSISTOR		
Q21			2SD2012	TRANSISTOR		
Q21			2SD2061(E,F)	TRANSISTOR		
Q22			2SB1370(E,F)	TRANSISTOR		
Q27			2SA1048(Y,GR)	TRANSISTOR		
Q27			2SA1309A(Q,R)	TRANSISTOR		
Q28 ,29			2SC2458(Y,GR)	TRANSISTOR		
Q28 ,29			2SC3311A(Q,R)	TRANSISTOR		
Q30 ,31			2SC2003(L,K)	TRANSISTOR		

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Q32			2SC2458(Y,GR)	TRANSISTOR		
Q32			2SC3311A(Q,R)	TRANSISTOR		
Q33			2SC1845(F,E)	TRANSISTOR		
Q34			DTC124ES	DIGITAL TRANSISTOR		
Q34			UN4212	TRANSISTOR		
Q35			DTA124ES	DIGITAL TRANSISTOR		
Q35			UN4112	TRANSISTOR		
⚠ Q36			2SD2012	TRANSISTOR		
⚠ Q36			2SD2061(E,F)	TRANSISTOR		
Q37 ,38			2SC1845(F,E)	TRANSISTOR		
⚠ Q51 ,52			2SD2340BT*5	TRANSISTOR		
⚠ Q53 ,54			2SB1531BT*5	TRANSISTOR		
⚠ Q55 ,56			2SC4137F19(V,W)	TRANSISTOR		
CONTROL UNIT(X11-00X)						
C1 ,2			CE04KW1HR33M	ELECTRO 0.33UF 50WV		
C3 -8			CC45FSL1H101J	CERAMIC 100PF J		2
C3 -8			CF92FV1H101K	MF 100PF K		3
C9 -12			CE04KW1HR33M	ELECTRO 0.33UF 50WV		
C13 -16			CE04KW1V100M	ELECTRO 10UF 35WV		
C17 -20			CF92FV1H223J	MF 0.022UF J		
C21 ,22			CE04KW1E470M	ELECTRO 47UF 25WV		
C23 ,24			CF92FV1H561J	MF 560PF J		3
C23 ,24			CK45FB1H561K	CERAMIC 560PF K		2
C25 ,26			CK45FB1H102K	CERAMIC 1000PF K		
C27 ,28			CF92FV1H561J	MF 560PF J		3
C27 ,28		*	CK45FB1H561J	CERAMIC 560PF J		2
C51 ,52			CK45FF1H103Z	CERAMIC 0.010UF Z		
C53 ,54			CF92FV1H101K	MF 100PF K		3
C55 ,56			CE04KW1E470M	ELECTRO 47UF 25WV		3
C57 ,58			CK45FF1H103Z	CERAMIC 0.010UF Z		2
C100			CC45FSL1H221J	CERAMIC 220PF J		
C101			CE04KW1C100M	ELECTRO 10UF 16WV		
C102			CK45FF1H103Z	CERAMIC 0.010UF Z		
J1			E11-0190-05	PHONE JACK PHONES		
R29 ,30			RS14KB3D151JTE	FL-PROOF RS 150 J 2W		
VR1 ,2			R06-3057-05	VALIABLE RESISTOR(BASS/TREBLE)		
VR3			R05-3030-05	VARIABLE RESISTOR(BALANCE)		
S1			S42-2138-05	PUSH SWITCH SPEAKERS		
S11 -19			S40-1064-05	PUSH SWITCH		
D1 ,2			1SS133	DIODE		
D11 -19			B30-1294-05	LED		
IC1 ,2			NJM4565D-D	IC(OP AMP X2)		
Q1			2SA934(Q,R)	TRANSISTOR		3
Q2			2SC2060(Q,R)	TRANSISTOR		3
A1			W02-1153-05	REMOTE SENSOR		

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SPECIFICATIONS

KA-3060R(For U. K. and Europe)

Continuous rated power output
(DIN) 1 kHz, at 8 Ω ..... 60 W + 60 W
at 4 Ω ..... 80 W + 80 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
at 8 Ω ..... 60 W + 60 W
at 4 Ω ..... 80 W + 80 W
Dynamic power ..... 64 W (8 Ω)
75 W (6 Ω)
90 W (4 Ω)
Damping factor ..... 40 (50 Hz)
Total harmonic distortion
..... 0.06% (20 Hz ~ 20,000 Hz, 50 W, 8 Ω)
0.02% (1 kHz, 50 W, 8 Ω)
Intermodulation distortion ..... 0.05% (50 W, 8 Ω)
(70 Hz : 7 kHz = 4 : 1)
Frequency response
CD/TUNER/TAPE1, 2 ..... 5 Hz ~ 100 kHz, +0 dB, –3 dB
PHONO 'RIAA' response ..... 20 Hz ~ 20 kHz,
+0.3 dB, –0.3 dB
Maximum input level
PHONO (MM) ..... 130 mV, 0.5% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM) ..... 76 dB (IHF '66)
77 dB (IHF '78)
CD/TUNER/TAPE1, 2 ..... 103 dB (IHF '66)
81 dB (IHF '78)
PHONO (MM) ..... 61 dB (DIN, 50 mW output)
CD/TUNER/TAPE1, 2 ..... 63 dB (DIN, 50 mW output)
Input sensitivity/impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
CD/TUNER/TAPE1, 2 ..... 200 mV/47 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)
Loudness control
(VOLUME at –30 dB level) ..... +6 dB (100 Hz)
+3 dB (10 kHz)
Output level/impedance
TAPE REC ..... 200 mV/600 Ω

General

Power consumption ..... 190 W
AC outlets
For U.K.
SWITCHED ..... 2; (Total 200 W max.)
For Europe
SWITCHED ..... 3; (Total 200 W max.)
Dimensions ..... W: 440 mm (17-5/16")
H: 133 mm (5-1/4")
D: 303 mm(11-15/16")
Weight (net) ..... 7.0 kg (15.4 lb)

KA-2060R(For U. K. and Europe)

Continuous rated power output
(DIN) 1 kHz, at 8 Ω ..... 50 W + 50 W
at 4 Ω ..... 65 W + 65 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
at 8 Ω ..... 50 W + 50 W
at 4 Ω ..... 65 W + 65 W
Dynamic power ..... 54 W (8 Ω)
60 W (6 Ω)
70 W (4 Ω)
Damping factor ..... 40 (50 Hz)
Total harmonic distortion
..... 0.06% (20 Hz ~ 20,000 Hz, 40 W, 8 Ω)
0.02% (1 kHz, 40 W, 8 Ω)
Intermodulation distortion ..... 0.05% (40 W, 8 Ω)
(70 Hz : 7 kHz = 4 : 1)
Frequency response
CD/TUNER/TAPE1, 2 ..... 5 Hz ~ 100 kHz, +0 dB, –3 dB
PHONO 'RIAA' response ..... 20 Hz ~ 20 kHz,
+0.3 dB, –0.3 dB
Maximum input level
PHONO (MM) ..... 110 mV, 0.5% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM) ..... 75 dB (IHF '66)
77 dB (IHF '78)
CD/TUNER/TAPE1, 2 ..... 103 dB (IHF '66)
81 dB (IHF '78)
PHONO (MM) ..... 61 dB (DIN, 50 mW output)
CD/TUNER/TAPE1, 2 ..... 63 dB (DIN, 50 mW output)
Input sensitivity/impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
CD/TUNER/TAPE1, 2 ..... 200 mV/47 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)
Loudness control
(VOLUME at –30 dB level) ..... +6 dB (100 Hz)
+3 dB (10 kHz)
Output level/impedance
TAPE REC ..... 200 mV/600 Ω

General

Power consumption ..... 170 W
AC outlets
For U.K.
SWITCHED ..... 2; (Total 200 W max.)
For Europe
SWITCHED ..... 3; (Total 200 W max.)
Dimensions ..... W: 440 mm (17-5/16")
H: 133 mm (5-1/4")
D: 303 mm(11–15/16")
Weight (net) ..... 6.5 kg (14.3 lb)

Note : KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be change without notice.

KA-2060R/3060R

SPECIFICATIONS

KA-3060R(For other countries)

Continuous rated power output
From 20 Hz to 20,000 Hz 0.06% T.H.D.
at 8 Ω ..... 50 W + 50 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
at 8 Ω ..... 60 W + 60 W
at 4 Ω ..... 80 W + 80 W
Dynamic power ..... 64 W (8 Ω)
75 W (6 Ω)
90 W (4 Ω)
Damping factor ..... 40 (50 Hz)
Total harmonic distortion
..... 0.06% (20 Hz ~ 20,000 Hz, 50 W, 8 Ω)
0.02% (1 kHz, 50 W, 8 Ω)
Intermodulation distortion ..... 0.05% (50 W, 8 Ω)
(70 Hz : 7 kHz = 4 : 1)
Frequency response
CD/TUNER/TAPE1, 2 ..... 5 Hz ~ 100 kHz, +0 dB, –3 dB
PHONO 'RIAA' response ..... 20 Hz ~ 20 kHz,
+0.3 dB, –0.3 dB
Maximum input level
PHONO (MM) ..... 130 mV, 0.5% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM) ..... 76 dB (IHF '66)
77 dB (IHF '78)
CD/TUNER/TAPE1, 2 ..... 103 dB (IHF '66)
81 dB (IHF '78)
Input sensitivity/impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
CD/TUNER/TAPE1, 2 ..... 200 mV/47 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)
Loudness control
(VOLUME at –30 dB level) ..... +6 dB (100 Hz)
+3 dB (10 kHz)
Output level/impedance
TAPE REC ..... 200 mV/600 Ω

General

Power consumption ..... 190 W
AC outlets
SWITCHED ..... 3; (Total 200 W max.)
For Australia 1; (Total 200 W max.)
Dimensions ..... W: 440 mm (17-5/16")
H: 133 mm (5-1/4")
D: 303 mm(11-15/16")
Weight (net) ..... 7.0 kg (15.4 lb)

KA-2060R(For other countries)

Continuous rated power output
From 20 Hz to 20,000 Hz 0.06% T.H.D.
at 8 Ω ..... 40 W + 40 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
at 8 Ω ..... 50 W + 50 W
at 4 Ω ..... 65 W + 65 W
Dynamic power ..... 54 W (8 Ω)
60 W (6 Ω)
70 W (4 Ω)
Damping factor ..... 40 (50 Hz)
Total harmonic distortion
..... 0.06% (20 Hz ~ 20,000 Hz, 40 W, 8 Ω)
0.02% (1 kHz, 40 W, 8 Ω)
Intermodulation distortion ..... 0.05% (40 W, 8 Ω)
(70 Hz : 7 kHz = 4 : 1)
Frequency response
CD/TUNER/TAPE1, 2 ..... 5 Hz ~ 100 kHz, +0 dB, –3 dB
PHONO 'RIAA' response ..... 20 Hz ~ 20 kHz,
+0.3 dB, –0.3 dB
Maximum input level
PHONO (MM) ..... 110 mV, 0.5% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM) ..... 75 dB (IHF '66)
77 dB (IHF '78)
CD/TUNER/TAPE1, 2 ..... 103 dB (IHF '66)
81 dB (IHF '78)
Input sensitivity/impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
CD/TUNER/TAPE1, 2 ..... 200 mV/47 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)
Loudness control
(VOLUME at –30 dB level) ..... +6 dB (100 Hz)
+3 dB (10 kHz)
Output level/impedance
TAPE REC ..... 200 mV/600 Ω

General

Power consumption ..... 170 W
AC outlets
SWITCHED ..... 3; (Total 200 W max.)
For Australia 1; (Total 200 W max.)
Dimensions ..... W: 440 mm (17-5/16")
H: 133 mm (5-1/4")
D: 303 mm(11-15/16")
Weight (net) ..... 6.5 kg (14.3 lb)

Note : KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be change without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the general market(M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams and information on regional component variations through use of parts list.

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